USEPA REGION VIII Wet Chemistry Laboratory NARRATIVE SUMMARY

Received Office of Enforcement

MAY 2 1 1999

ANALYST: Vicente C. Marti

DATE: December 1, 1998

Compliance & Env. Justice

PROJECT: HECLA PONDS

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ANALYTE: Ammonia-Nitrogen, TSS and Oil & Grease

For the ammonia nitrogen determination of 11-23-98, Alpkem file No. FG8NH there were no significant problems other than the fact that samples from the HECLA project were very high in ammonia-N. HECLA samples did not have Laboratory ID #s, so the sample EPA Tag Nos. were used for sample identification. All ammonia-N data for these samples is valid and show no matrix problems.

Tes the TSS determination there were no problems, other than the fact that the samples arrived two days before the holding time expiration.

Oil and Grease by Freon-113 extractions gave 58.9 mg/L result. Sample (650 mL) was received in a wide mouth jar and properly preserved. The pH of the sample was <2.000 and had very little sedimentation. The sample bottle was rinsed with Freon after the sample was placed in the separatory farmel. No significant emulsion was formed. The Freon solvent had a negligible blank value.

TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

Page:

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SAMPLE NUMBER: 8-175822

DATE-TIME SAMPLED: 11/16/98 15:12

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

STATION ID: OMG-1

MATRIX: WATER ANALYST: VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001842

REMARKS:

RESULT DATE COMP METHOD 11/20/98 160.2 TOTAL SUSPENDED SOLIDS

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

TECHNICAL & MANAGEMENT SERVICES

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Page: 1

SAMPLE NUMBER: 8-175826

DATE-TIME SAMPLED: 11/16/98 16:15

PROJECT: HECLA PONDS
MATRIX: WATER

PROJECT CODE: RCRA

STATION ID: OMG-3

ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001843

REMARKS:

PARAMETER 49 11/20/98 160.2 TOTAL SUSPENDED SOLIDS

TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175828

DATE-TIME SAMPLED: 11/16/98 17:50

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

MATRIX: WATER

STATION ID: OMG-5

ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001844

REMARKS:

METHOD	PARAMETER	RESULT	DATE COMP
160.2	TOTAL SUSPENDED SOLIDS	31	11/20/98

TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

Page:

SAMPLE NUMBER: 8-175768

DATE-TIME SAMPLED: 11/18/98 11:50

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

MATRIX: WATER

STATION ID: OMG-6

ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001845

REMARKS:

METHOD	PARAMETER	RESULT	DATE COMP
160.2	TOTAL SUSPENDED SOLIDS	11	11/23/98

TECHNICAL & MANAGEMENT SERVICES

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CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175766

DATE-TIME SAMPLED: 11/18/98 13:50

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

STATION ID: OMG-7

MATRIX: WATER ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001846

REMARKS:

METHOD RESULT PARAMETER . 15 TOTAL SUSPENDED SOLIDS 11/23/98 160.2

NOTE: All Results are in mg/L

1

TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175770

DATE-TIME SAMPLED: 11/18/98 14:25

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

STATION ID: OMG-9

MATRIX: WATER ANALYST: VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001847

REMARKS:

RESULT DATE COMP 160.2 TOTAL SUSPENDED SOLIDS 12 11/23/98

U.S.E.P.A. REGION VIII WET CHEMISTRY LABORATORY QUALITY CONTROL SUMMARY

ANALYST: Vince ANALYTE: TSS PROJECT: HECKLA PONDS DATE: 11/20\$23/98 SPIKES (mg/L) TAG # LAB ID# SPIKE SAMPLE SPIKE + R PR-LIMITS AMOUNT VALUE SAMPLE COVERY (mg/L) DUPLICATES TAG # LAB ID # SAMPLE VAL. DUP. VALUE & RPD 98-1943 50 BLANKS (mg/L) **B1 B2 B**3 **B4 B**5 **B6 B7** BS **B9 B10** 44 CONTROLS (mg/L) ACCEPTANCE LIMITS I. D. TRUE VAL. RECOVERED RECOVERY LOW EIGH

REMARKS:

USEPA REGION VIII Wet Chemistry Laboratory NARRATIVE SUMMARY

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MAY 2 1 1999

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Compliance & Env. Justice

PROJECT: HECLA PONDS

ANALYTE: Ammonia-Nitrogen, TSS and Oil & Grease

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Cover letter
The Same but
Attaches data
differs

U.S. ENVIRONMENTAL PROTECTION AGENCY REGION VIII TECHNICAL & MANAGEMENT SERVICES

Page:

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175828

PROJECT: HECLA PONDS

MATRIX: WATER ANALYST : VCM

LAB NUMBER: 98-A001844

DATE-TIME SAMPLED: 11/16/98 17:50

PROJECT CODE: RCRA

STATION ID: OMG-5

ANALYSIS COMPLETE DATE: see below

REMARKS:

METHOD	PARAMETER	RESULT	DATE COMP
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160.2	TOTAL SUSPENDED SOLIDS	31	11/20/98

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CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175826

PROJECT: HECLA PONDS

MATRIX: WATER

ANALYST : VCM

LAB NUMBER: 98-A001843

DATE-TIME SAMPLED: 11/16/98 16:15

PROJECT CODE: RCRA

STATION ID: OMG-3

ANALYSIS COMPLETE DATE: see below

REMARKS:

METHOD	PARAMETER	RESULT	DATE COMP
160.2	TOTAL SUSPENDED SOLIDS	4.9	11/20/98

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TECHNICAL & MANAGEMENT SERVICES

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CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175822

DATE-TIME SAMPLED: 11/16/98 15:12

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

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MATRIX: WATER ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001842

REMARKS:

METHOD PARAMETER 11/20/98 TOTAL SUSPENDED SOLIDS 160.2

TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

Page:

SAMPLE NUMBER: 8-175770

DATE-TIME SAMPLED: 11/18/98 14:25

PROJECT: HECLA PONDS

PROJECT CODE: RCRA

STATION ID: OMG-9

MATRIX: WATER ANALYST: VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001847

REMARKS:

RESULT 160.2 TOTAL SUSPENDED SOLIDS 12 11/23/98

TECHNICAL & MANAGEMENT SERVICES

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CERTIFICATE OF ANALYSIS

Page:

SAMPLE NUMBER: 8-175768

PROJECT: HECLA PONDS

MATRIX: WATER

MATRIX: WATER
ANALYST: VCM (W)
LAB NUMBER: 98-A001845

DATE-TIME SAMPLED: 11/18/98 11:50

PROJECT CODE: RCRA

STATION ID: OMG-6

ANALYSIS COMPLETE DATE: see below

REMARKS:

11 11/23/98 160.2 TOTAL SUSPENDED SOLIDS

U.S. ENVIRONMENTAL PROTECTION AGENCY Page: REGION VIII TECHNICAL & MANAGEMENT SERVICES

LABORATORY SERVICES PROGRAM

CERTIFICATE OF ANALYSIS

SAMPLE NUMBER: 8-175766

DATE-TIME SAMPLED: 11/18/98 13:50 PROJECT CODE: RCRA

PROJECT: HECLA PONDS

STATION ID: OMG-7

MATRIX: WATER ANALYST : VCM

ANALYSIS COMPLETE DATE: see below

LAB NUMBER: 98-A001846

REMARKS:

RESULT DATE COMP . 15 160.2 TOTAL SUSPENDED SOLIDS 11/23/98

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